

**Audio File VN520368**  
**Excerpted Minutes: 00:03:12 to 00:59:24**

Transcript of Proceedings

Audio Transcription



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Transcribed by Megan Wunsch

1 (Beginning of excerpt.)

2 MALE SPEAKER: I think we'll get right into  
3 water treatment and recovery questions. So does  
4 anyone have any questions that they'd like to ask into  
5 this microphone -- or, actually, I guess we have a  
6 few. Do you -- you want to start with those?

7 MALE SPEAKER: Yeah. Okay. I thought we'd  
8 start with some of the questions that we got this  
9 morning that we didn't have a chance to answer.

10 So, one, "If a CAFO is permitted for 3,500  
11 animal units currently operates to 2,500, what is  
12 considered the number in the evaluation?"

13 The answer to that is the -- the 2,500, what  
14 they're actually operating at. So you may want to  
15 consider expanding or -- or -- or sizing your system  
16 to accommodate the 3,500, but we'd be -- we'd actually  
17 be interested in what actually -- is actually  
18 operating.

19 Next two questions actually, although they  
20 don't seem to be related, are and I thought this might  
21 be rhetorical, but I'll try to answer it. It is,  
22 "Have you thought about the contracting complexities  
23 and liabilities in administering nutrients to land  
24 from the hub-and-spoke farms?"

25 And the answer to that is yes. But again,

1           that -- the -- the answer to that also highly -- is  
2           highly dependent on the actual proposal. Essentially,  
3           if you're talking about liabilities, you're talking  
4           about I guess who is in possession and ownership of  
5           the -- of the manure.

6                     I mean, I think if you're talking about --  
7           liability might be considered a manure spill, so if  
8           the manure spill happens at the digester, who -- who  
9           is owning and operating that? That would be where the  
10          liability would normally be. If it occurs -- say if  
11          you have a pipeline and it occurs in the pipe, who  
12          owns that, who's in possession of that and -- and owns  
13          that pipeline? And if you -- if it happens while the,  
14          you know, it's being trucked, if, you know, as we, you  
15          know, who's -- who's trucking it?

16                    So, and on the tree, you can't find it, but  
17          it is (inaudible). It's above this very question and  
18          that's the answer I got. And it's gonna depend on who  
19          is -- where it happens and how it happens, if somebody  
20          was negligent or not, and then who's actually owner --  
21          owning it.

22                    So, I'm gonna talk about a little bit about  
23          the kind of another question that came up regarding --  
24          and -- and maybe explaining how we operate the Dane  
25          County Digester, how that's constructed, we'll help

1 answer it.

2 The way we handle this is that -- I believe  
3 I talked to Tim -- we have two CAFO -- at least in one  
4 of the regional digesters, we have two CAFO's and a  
5 non-CAFO that's involved in that. And so when the --  
6 you know, they both (inaudible) their manure into the  
7 system. When they take it back, of course the CAFO's  
8 are responsible to spread their manure according to  
9 their permit, which has a nutrient management plan as  
10 part of that.

11 The non-CAFO essentially has a contractual  
12 arrangement with the digester. And the digester  
13 permit, when they have a permit, has a nutrient  
14 management plan requirement in that.

15 And so the -- the arrangement is that the  
16 non-CAFO farm is contracting (inaudible) -- kind of  
17 like a contract manure (inaudible) and agrees to apply  
18 the manure that they get back from the digester  
19 according to the nutrient management plan that is in  
20 the digester's permit. And so, what that does is that  
21 does not subject that small farm to any regulation  
22 necessarily or -- or a permit. So -- but they have  
23 this contractual agreement.

24 And so -- and -- and any sort of violation  
25 or -- or issue with that would be handled under

1 contract law as opposed to under the -- under permit  
2 and -- and we would -- we, DNR, would be holding the  
3 digester owner responsible for the proper -- and  
4 regulating the digester as opposed to the small farm.

5 So -- so that's -- that's the arrangement  
6 that we have there and -- and -- and what we want  
7 because, as I would anticipate, one of the concerns  
8 that a small farm would have is am I now gonna have to  
9 get a permit, am I gonna be regulated if I engage in  
10 this opportunity. And this is a way to keep them at  
11 arm's length from the regulation.

12 So, the -- and had sort of another sort of  
13 rhetorical question about farmer participation. "Why  
14 do it, will it be regulated?"

15 I think I just answered that. And -- or to  
16 the one in return. I think that this kind of, sort of  
17 molds into the economic discussion. And one thing  
18 that we would hope is that this could be done in a  
19 more efficient manner, as far as manure management and  
20 some of the numbers that Sarah was putting up.

21 If it's costing you 1 cent and a half or 2  
22 cents a gallon to -- to dispose of your manure now, if  
23 you could do that for 1 cent a gallon instead, by  
24 participating in this project, that -- that would be  
25 an incentive as a farmer to -- to do that. And if you

1        had, say, just a back-of-a-napkin calculated -- you  
2        have say -- say a fairly large firm, say 1,000 animal  
3        units, you might be spending \$150,000 to manage your  
4        manure and if you could do that for 100,000 instead  
5        and have 50,000 transferred to your bottom line, that  
6        might be an attractive incentive for you to consider  
7        participation.

8                So -- so that's -- that would be one reason  
9        why they would do it. You know, the number of reasons  
10       that a farmer might do it probably as varied as the  
11       number of farmers. So, some might do it for more  
12       altruistic reasons, but I would hope that there would  
13       be an economic incentive would be part of this more  
14       efficient way to do -- to do that.

15               Just to add one -- one more.

16               When we talked about the Majestic Meadows  
17       Dairy that has this, a system which has a digester and  
18       manure treatment, they actually divert about 70  
19       percent of the water into the -- into a clean water --  
20       you know, that comes out that they get back to the  
21       cows, they recycle, so they've reduced their manure  
22       volume by 70 percent, so you only go 30 percent of the  
23       volume, so you got much less volume.

24               The way it's set up, they -- I don't think  
25       they have it set up this way, but they could very well

1       -- you take out the phosphorus with one part of their  
2       process. That could be shooted off into one storage  
3       area. Take out the nitrogen with two other parts of  
4       their process. That could be shooted off into another  
5       part. And so you would have, you know, one pool of  
6       more phosphorus-dominated manure, if you will, and  
7       another pool of more nitrogen-dominated manure, which  
8       would give the (inaudible) to do that, but to use sort  
9       of (inaudible) to build more customized to your crop  
10      needs as far as the fertilizer amendment.

11               So -- and plus you have only 30 percent of  
12      the volume that you did under the traditional  
13      treatment. So, those would be maybe some other  
14      reasons that would be attractive.

15               I'll take one that I can't answer very well  
16      and we'll have to post this on the website and I'll  
17      get a better answer and that has to do -- as I  
18      mentioned, I have (inaudible) history in water  
19      programs. This is a -- has to do with air. And so I  
20      know enough to be dangerous, but I don't want to stand  
21      up here and try to answer this.

22               It says, (inaudible), "Please speak to the  
23      current air permitting requirements for anaerobic  
24      digesters on CAFO's."

25               One thing I do know is that there are air



1 permits involved and -- for example, in the Dane  
2 County one, I know that they do have some trouble  
3 meeting their hydrogen sulfide emissions and -- and --  
4 but that's about the extent of my knowledge. There's  
5 probably people that operate digesters in the room  
6 that have vast -- you know, could answer this question  
7 much better than I can and so I'd welcome you to -- to  
8 do that, if we -- if we have -- is there anyone that -  
9 -

10 MALE SPEAKER: Yeah.

11 MALE SPEAKER: 'Cause I will admit, I'm not  
12 -- this is not my area.

13 MALE SPEAKER: Yeah, the main issues for air  
14 permit requirements are, really, comes down to what  
15 you are gonna do with that gas. On the electrical  
16 generation side, you do have to be concerned about the  
17 H2S limits. There's stack testing. The air permit  
18 process is actually fairly straightforward, not  
19 extremely complicated.

20 If you are looking at -- on the gas cleanup  
21 side, it's a little bit different because you're not  
22 burning all that gas. The main issue there is really  
23 the flare. Again, in general, you're not a huge  
24 source of air emissions, so the process, in my  
25 experience with the Wisconsin DNR, is -- is very

1 smooth and -- and straightforward.

2 MALE SPEAKER: And we did not pay him to say  
3 that. Okay. Okay.

4 One other one before I get to the grants is,  
5 "What are the considerations for those looking to  
6 partner with a local municipal wastewater treatment  
7 facility in regards to the DNR-imposed phosphorus  
8 limits? Are adaptive management proposals looked upon  
9 favorably?"

10 So, essentially, to be honest, we're not  
11 gonna give a municipality a break on their phosphorus  
12 limits. The phosphorus limits are what they are.  
13 They're based on their -- their receiving water, what  
14 the receiving water can assimilate from a water  
15 quality standpoint.

16 So, some of the municipalities are meeting  
17 their phosphorus limits by mechanical means, doing it  
18 in their treatment plant. Theirs are using treating.  
19 Others are using adaptive management.

20 And so, if they have the capacity, they may  
21 be -- you know, there may be some reasons that they  
22 would be willing to enter into a agreement to accept  
23 all or some of the waste and treat it, from a revenue  
24 stream 'cause they're not gonna do it for free, so  
25 that's something that your proposal would have to look

1 at, as far as what is the cost.

2 If you have a municipality that's available  
3 to take your -- to take your -- your waste stream,  
4 what would it cost you to do it that way as opposed to  
5 building your own treatment system and amortizing that  
6 over so many years and you'd have to look at that.

7 Adaptive management might be -- as far as  
8 our evaluation, there's no really bonus points in --  
9 in -- as part of that, but it may be of assistance to  
10 you in dealing -- in -- in negotiating with a  
11 municipality because, you know, if you have a group of  
12 farmers that might be willing to engage in best  
13 management practices, that would reduce phosphorus  
14 coming off of their land that the municipality could  
15 use in an adaptive management approach.

16 That gives you some bargaining power, I  
17 guess I would call it, to talk to the municipality  
18 about it 'cause we could -- in return for accepting  
19 our waste, we'll do these adaptive management things  
20 and it might save them money. It might be a win/win  
21 situation for you. So -- so I would encourage, you  
22 know, some consideration along those lines. Okay.

23 There was a question about the grants.

24 And rather than me talk and then Steve goes,  
25 oh, no, tell me I told you the wrong thing later, on

1 the way home, I thought I'd have Steve come up and so  
2 we'll put the funding opportunities slide back up and  
3 he can -- we'll give a short little talk about the  
4 grants and -- and fill -- fill in a lot of the blanks  
5 that I'm sure I left. Thank you.

6 MALE SPEAKER: Thanks. Obviously -- I  
7 suspect many of you have seen or are aware of these  
8 grants. Save you the suspense, none of 'em are a  
9 perfect fit.

10 The reason I wanted to make sure you were  
11 aware of 'em though, is that some of these might have  
12 some things in there that you can take advantage of,  
13 but I didn't want people to go through a lot of the  
14 hard work here, that folks will do, only to trip over  
15 one of these after the fact and say, well, heck, why  
16 didn't I know about this thing, it might've been a  
17 good fit. So, let me just talk a little bit more  
18 about 'em.

19 The Great Lakes Restoration Initiative  
20 obviously has -- has been a tremendous amount of money  
21 into all of the Great Lakes area. It's -- along with  
22 the common theme actually for all of 'em, nutrients is  
23 going to be the -- the hook, if you will. That's  
24 going to be the thing that will give an opportunity to  
25 possibly compete for these is how are -- how would

1       these projects reduce nutrients, how would there be a  
2       net export, if you will, or reduction net area, so  
3       this is about making sure you are at least aware of  
4       these so that you can evaluate what options there  
5       might be.

6               The other thing that would be a challenge is  
7       the timeline. So, for May 1st, perhaps none of these  
8       will work or none of these will work easily. But the  
9       May 1st is one of your deadlines. If -- if there's a  
10      project that gets some legs, obviously there's going  
11      to be a lot more effort going forward to bring that  
12      thing to fruition and some of these might fit in very  
13      well at that point.

14             The Fund for Lake Michigan and the Great  
15      Lakes Protection Fund are two of 'em that I'd kind of  
16      like you to keep a -- a little bit sharper focus on  
17      because they are not federal funded, so they're not  
18      ones that are in the current evolving situation. I'll  
19      just leave it at that. So -- 'cause we don't know  
20      where we're going to end up with some of the federal-  
21      funded ones.

22             I'm hopeful that they'll -- they'll continue  
23      and have legs, but the Fund for Lakes Michigan, Great  
24      Lakes Protection Fund are also a little bit more fluid  
25      -- no pun intended -- on their funding opportunity

1 windows. So, you get a good project idea, I'd suggest  
2 to shop those, go take a look at what they have online  
3 and think about reaching out to the coordinators for  
4 those.

5 The Protection Fund in particular has a  
6 interest and novel ideas, or innovative ideas, things  
7 that then could be shown to work in your area and then  
8 be transferrable across the whole region. That might  
9 be a good fit. What was the --

10 MALE SPEAKER: The money amounts?

11 MALE SPEAKER: Yes, the money amounts,  
12 highly variable across all of these and they change.

13 The Protection Fund is one that can have  
14 some pretty high dollar amounts. It does change, so I  
15 don't know what it currently is, sir, but I think it's  
16 6 -- 6 figures up to a million for the Protection  
17 Fund.

18 Most of 'em are going to be 5 -- 5 to 6  
19 figure kind of a range. The GLRI we have on occasion  
20 funded multi-million dollar projects but those, quite  
21 frankly, are usually contaminated sediment cleanups,  
22 but it can be on the higher end, as well.

23 So, more than anything, I just wanted you to  
24 be cognizant of these so that when you're going  
25 through your project proposal, at least take a look at

1       these and -- and evaluate whether they'll -- they'll  
2       be a fit or not.

3               I am sure I haven't answered all the  
4       questions. Are -- can I open it up? Are there any  
5       specific questions people have about these?

6               MALE SPEAKER: These -- these funds would be  
7       available regardless if you were part of the digester  
8       or, uh --

9               MALE SPEAKER: Right.

10              The question is, are these funds -- would  
11       these funds be available whether you're part of this  
12       program effort or not.

13              The answer is yes. These are -- they're  
14       completely independent of this effort. It's more that  
15       I saw this effort as being some opportunities that  
16       might exist in these and I wanted you to be aware of  
17       'em so that people didn't find out after the fact.

18              There's a question all the way in the back.

19              MALE SPEAKER: (Inaudible) Shultz and I  
20       guess my question specifically to this is -- I -- I  
21       assisted -- I was the Focus on Energy representative  
22       that oversaw most of the digester installs and the  
23       millions of dollars that went into these systems.  
24       We're really good at paying upfront into these  
25       systems.

1                   My question to you is, how can we change  
2                   this and instead of paying for the system, look at how  
3                   we pay for the outputs of the system? Because a fair  
4                   proportion of those systems I worked with are no  
5                   longer operating and I don't see this as a sustainable  
6                   means of trying to build this industry and build this  
7                   -- this network.

8                   So my question is, are these funding  
9                   agencies, if you are here today, willing to look at an  
10                  alternative way of funding these systems, funding this  
11                  anaerobic digestion and manure management component  
12                  and -- and looking at it from a back-end approach,  
13                  buying the electricity, paying into the electricity  
14                  purchase, paying into the nutrient management side?  
15                  'Cause that's really what's gonna make these systems  
16                  work in the end. We can throw all the money we want  
17                  at 'em, but if they don't pay for themselves at the  
18                  end of the day, they get taken off line.

19                  MALE SPEAKER: Thanks. So your question is  
20                  more about sustainability, if you will, and how it  
21                  fits as a -- as an appropriate business model, which  
22                  is different than these, so may I hand this one off?

23                  MALE SPEAKER: Yeah, absolutely.

24                  MALE SPEAKER: Okay.

25                  MALE SPEAKER: Thanks. We -- we might call



1       you back up if there's other questions about the --  
2       these funding sources.

3               So, the -- the decision that came down from  
4       the Commission as to how to allocate these dollars has  
5       been -- has come through. And so, the -- the -- this  
6       is the project, this is the program and how it's going  
7       to be in this iteration.

8               It doesn't -- it doesn't guarantee success  
9       by any means. It -- it -- as I mentioned before,  
10      there are -- there could be additional rounds if the  
11      \$20 million aren't spent this time around, but there  
12      is certainly other considerations for exactly how to  
13      pay for further development in the state and this is  
14      something that's been on -- on -- in -- in the  
15      conversation, so -- but at this point, this is the --  
16      the current iteration of -- with this program. There  
17      won't be a -- a pivot in that regard for -- for this  
18      program.

19              Any other questions? (Inaudible.)

20              FEMALE SPEAKER: I just wanted to take a  
21      second to partially address Joe's comment, though, is  
22      that we have -- obviously, I mean, he's not wrong in  
23      that some of these systems have gone off line since  
24      the buyback rates have fallen to levels that don't  
25      sustain them economically that way.

1                   However, we are also seeing a number of  
2                   systems staying on line that are less -- are doing so  
3                   less for the energy production and more so for the  
4                   manure management optimization aspects. So while I  
5                   admit there is some downside to the energy production  
6                   and costs associated with that, not in necessarily my  
7                   realm of expertise, but I know that there is a lot of  
8                   benefit that the farms see.

9                   And when we were talking to the farmers  
10                  about this project, they could care less about the  
11                  energy. I -- you know, I know a lot of you care a lot  
12                  about that, but their aspects are really the manure  
13                  management and farm management and how it fits in  
14                  their system and they see this.

15                 And the ones that have kept their digesters  
16                 on line are -- see those benefits financially,  
17                 neighbor relations, environmental issues, all those  
18                 kind of things combined, and I think we are starting -  
19                 - starting to see more of the benefits, monetary  
20                 benefits, associated with those aspects being  
21                 calculated and -- and held in high regard by the farms  
22                 that are keepings those systems in tact.

23                 MALE SPEAKER: Thanks, Sarah.

24                 Any other questions about kind of the -- the  
25                 water treatment and recovery aspect?

1                   Yeah, Russ has got a couple here.

2                   MALE SPEAKER: Okay.

3                   Have a question about -- "A discussion is  
4 revolving around water nitrate reduction. What may be  
5 the nitrogen reduction [inaudible] or objective at the  
6 farm level or county level, in terms of [inaudible]  
7 percentage or total nitrogen reduction countywide?"

8                   The short answer is we don't have these  
9 targets at this point. I would say my answer would be  
10 that the goal at any nutrient management plan is to  
11 apply any nutrient, including nitrogen, according to  
12 crop needs. And so, any excess that's put on tends to  
13 get put into the environment, whether it's into the  
14 groundwater, into the surface water.

15                   So, the -- and these targets that you would  
16 come up with are highly variable, according to the  
17 soil type, according to the crop that is being -- the  
18 crop rotation that's being practiced, according to,  
19 you know, the -- the situation of nitrogen that's  
20 being on a particular field. So, to establish these  
21 types of targets would be extremely difficult and --  
22 at least at the -- at the -- at the level that you're  
23 talking about.

24                   Maybe at the field level, we could do that,  
25 but you do that through your nutrient management plan.

1 And -- and the whole goal is to try to keep, you know,  
2 the 4 R's that Sarah was talking about. You want the  
3 right source, the right timing, is probably very  
4 important regarding nitrogen as well as the right  
5 rate, so those are things that are addressed in -- in  
6 -- in the nutrient management plan.

7 So, yes, nitrogen is an issue. It's an  
8 issue for -- we have groundwater standards. We could  
9 go -- actually I could talk on this topic all  
10 afternoon, but I won't do that to you.

11 But -- the -- but that's the kind of the  
12 short answer is that any targets, they're really  
13 established by the nutrient management plan, by the --  
14 by the crop rotation, by the goals of the farm, as far  
15 as what their productivity goals are, and, you know,  
16 the whole key is to try to have the nitrogen in the  
17 roots (inaudible) when the plants take -- up taking  
18 the nitrogen, so it's in the right form at that time  
19 and that is a -- you know, that's a trick in some  
20 cases.

21 So, I'm sorry I don't have a better answer  
22 for that, but that's -- that's sort of the status  
23 where we're at.

24 MALE SPEAKER: Okay. Any other questions on  
25 the water treatment and recovery side of things?

1 MALE SPEAKER: (Inaudible.)

2 MALE SPEAKER: Sure.

3 MALE SPEAKER: (Inaudible.)

4 MALE SPEAKER: Hang on -- hang on one  
5 second.

6 (Multiple speakers inaudible.)

7 MALE SPEAKER: I can yell.

8 MALE SPEAKER: We're recording, so we gotta  
9 --

10 MALE SPEAKER: Cool.

11 FEMALE SPEAKER: (Inaudible.)

12 MALE SPEAKER: All right.

13 So we're here because the State wants to put  
14 together a system, somewhere in the state, that is  
15 going to control nutrients. It's gonna have -- it's  
16 gonna be a nutrient management program, right? I  
17 think I heard that said many times. It's written  
18 down. Yet you're telling us that we don't have a  
19 standard to meet? I mean, how do you judge what  
20 system is good and which (inaudible)?

21 MALE SPEAKER: The standard to meet -- okay,  
22 look at UW -- it's a -- a recommendation. It's  
23 regarding how much --

24 MALE SPEAKER: No, no, no.

25 (Multiple speakers inaudible.)

1                   MALE SPEAKER: The point is this plant or  
2 plants or whatever they're gonna be, we have to design  
3 it to meet some standard, but you're telling us there  
4 is no standard, that the standard is in the field.  
5 What -- what do we design it for?

6                   MALE SPEAKER: Well, if you're talking about  
7 as far as the effluent --

8                   MALE SPEAKER: Yeah.

9                   MALE SPEAKER: Okay. If you're talking  
10 about the effluent, then, yes, there would be a  
11 standard and that's dependent on what you're gonna do  
12 with that effluent.

13                   Are you gonna give it to the cows? That's  
14 one standard. Are you gonna put it in a -- in a  
15 stream? That's another standard and it varies by the  
16 stream because different streams have different  
17 simulative capacities. So we do a -- a very detailed  
18 calculation regarding how much, what's your -- what's  
19 your treatment, what your volume is, what -- what  
20 you're proposing to do with that, and we give you an  
21 effluent limit, yes. We can do that.

22                   But I can't stand up here and say here's the  
23 -- here's the effluent limit for a county. It is case  
24 specific according to exactly what you're proposing.

25                   MALE SPEAKER: Okay. Thank you.

1 MALE SPEAKER: Thanks.

2 FEMALE SPEAKER: I have a question for you.

3 MALE SPEAKER: Another question back in the  
4 -- (inaudible) -- there we go.

5 MALE SPEAKER: As long as we're -- we have  
6 the DNR representative, is it permissible at this  
7 point to put pure H2O into a -- into a creek or land  
8 discharge it, that may, you know, have its way to a  
9 creek, or do we have to re-pollute it before we  
10 discharge it?

11 MALE SPEAKER: If you can get distilled  
12 water --

13 MALE SPEAKER: Oh, even better. We're  
14 talking RO water.

15 MALE SPEAKER: I mean, that --

16 MALE SPEAKER: Is it permissible to dump RO  
17 water into a habitat, you know, into a waterway?

18 MALE SPEAKER: I think that depends on the  
19 waterway. It really does.

20 I mean, that's certainly not our goal, but  
21 it depends on if -- if -- if you're going to, for  
22 example, discharge a great deal of distilled water  
23 into a -- an intermittent stream that's going to  
24 create kind of a sterile area in that stream, I don't  
25 think that we would be too keen on that. If you're

1 going to discharge a small amount into a river that  
2 has a great deal of (inaudible), you can effect the  
3 environment, we wouldn't have any problem with that.

4 So, a lot of these -- the answers are it  
5 depends on exactly how much, where, how -- how you  
6 intend to do it.

7 MALE SPEAKER: Okay. How about in the avail  
8 -- let's just say a waterway, 20,000 gallons a day  
9 into a waterway, which would change the vegetation of  
10 the waterway to a slightly more wet footed vegetation,  
11 but it would re-mineralize by the time it got to a --  
12 any type of river or creek, would that be acceptable?  
13 Do you feel --

14 MALE SPEAKER: It could be.

15 MALE SPEAKER: -- that that's permissible?

16 MALE SPEAKER: It could be. I mean, I'm not  
17 gonna stand here and say, yes, absolutely, and bless  
18 it right now.

19 (Multiple speakers inaudible.)

20 MALE SPEAKER: Is there any --

21 MALE SPEAKER: Is there a prohibition that I  
22 -- you know, that I would say that we would right now  
23 say there's no law against it, no, a regulation  
24 against it, but, it would be kind of a first.

25 Ah, Tim is here. He can talk about that.



1 MALE SPEAKER: I'm not sure if you're  
2 getting to like ion deficiency toxicity. Is that --

3 MALE SPEAKER: Right.

4 MALE SPEAKER: -- the concern you're talking  
5 about? When we have -- when we have lead testing, the  
6 whole effluent toxicity testing, we have kind of a  
7 basically a waiver for ion deficiency toxicity 'cause  
8 it usually does -- it only exists typically in the lab  
9 test as opposed to in the environment. Typically,  
10 when those -- those -- like the RO waters discharge,  
11 it quickly picks up the ions to where it's not -- no  
12 longer toxic to aquatic life.

13 MALE SPEAKER: That's correct. And that's  
14 why by op -- applying it to a 1,000 foot long  
15 waterway, you know, it's re-mineralized and normalized  
16 or re-polluted by the time it --

17 MALE SPEAKER: Yeah.

18 MALE SPEAKER: -- could get to any stream.

19 MALE SPEAKER: Yeah, correct. I -- we -- we  
20 don't see that as a wet failure when we -- when we  
21 evaluate that testing, which is typically included in  
22 permits. 'Cause --

23 MALE SPEAKER: So the --

24 MALE SPEAKER: -- we -- we see that in -- in  
25 some of the dairy industry when they have like cow

1 water, (inaudible) away, they usually treat that with  
2 RO and they can tend to have some of those same issues  
3 where they'd have ion deficiency toxicity.

4 MALE SPEAKER: So you see no difficulties in  
5 permitting RO permeate and discharge?

6 MALE SPEAKER: Yes, correct. We could  
7 permit that.

8 MALE SPEAKER: Thank you.

9 MALE SPEAKER: Thanks, Tim. That's why we  
10 got him here.

11 (Multiple speakers inaudible.)

12 MALE SPEAKER: Hang on one second.

13 MALE SPEAKER: Okay.

14 MALE SPEAKER: Got somebody in the back.

15 MALE SPEAKER: Okay.

16 MALE SPEAKER: There's somebody in the back.

17 MALE SPEAKER: (Inaudible.)

18 MALE SPEAKER: Okay.

19 MALE SPEAKER: When do this water, or when  
20 the manure is still being manure to come manure  
21 (inaudible) the fibers and you have the water, is that  
22 is water or is going to waste to manure?

23 MALE SPEAKER: I don't know whether we  
24 define it that -- in that way. I think if you've  
25 treated it and you have a ability to -- you know,

1 permit to discharge it and you can meet those effluent  
2 limits, it doesn't matter what you call it. The --  
3 the sludge, if you will, that's coming off, would  
4 still be treated as manure, but the -- the effluent  
5 would be treated as any other effluent would be.

6 MALE SPEAKER: Okay.

7 MALE SPEAKER: Okay. Last call for water-  
8 related questions. Okay.

9 So I think now we're gonna move onto project  
10 economics and I have a few questions up here that  
11 would go along those lines. I'm gonna probably pull  
12 in a couple others that are in the audience to -- to  
13 help me answer those questions. But does anyone have  
14 anything about project economics they'd like to start  
15 us out with? I've got a couple I can start with.

16 So, one of them has to do with -- the  
17 question is for vendors. "Are they reimbursed at the  
18 sales price?"

19 So, it's a little unclear to me exactly what  
20 we're after, but that would depend on the -- the  
21 contract between the consortium, how the -- the  
22 organization is -- is dealing with -- with revenues  
23 and expenses for -- for the project. Again, the --  
24 the focus money is a reim -- reimbursement that comes  
25 in a -- at a lump sum after installation and

1 verification by -- by Focus on Energy.

2 So, how the vendors are -- are -- are paid  
3 and compensated is -- is entirely within the -- the  
4 consortium's agreements.

5 I don't know if anyone in the back there at  
6 Focus has any comment on paying -- paying the vendors  
7 and -- and how that goes? No? Okay.

8 (Multiple speakers inaudible.)

9 MALE SPEAKER: There's one here about public  
10 money and public data.

11 So just to clarify where this -- where this  
12 money is coming from, this is \$20 million from Focus  
13 on Energy -- the Focus on Energy program, which is the  
14 -- the statewide energy efficiency renewable resource  
15 program. So it's -- it's different than tax dollars,  
16 right?

17 But there -- there is a -- a -- a perfectly  
18 legitimate question about when -- when those funds  
19 come -- coming from rate payers, that go to projects,  
20 do we have some ability to -- to see how those funds  
21 are -- are used and to get an idea of -- of the  
22 success of projects or lessons that we can learn from  
23 them.

24 It's -- I -- I guess maybe I'll toss that  
25 back to -- to Catherine and -- and Eric back there, if

1       you have a comment on kind of if information could  
2       come from the projects and how they've been -- how --  
3       the success or failure of projects and -- and kind of  
4       what lessons we can learn from them.

5               FEMALE SPEAKER: Sure. It definitely  
6       depends. It's a case-by-case basis. We do have  
7       customer confidentiality rules in Focus on Energy, so  
8       if you're participating and you complete a project,  
9       unless you are asked or, you know, maybe you want to  
10      provide a success story or information about your  
11      project, we do have to get that information confirmed  
12      by the applicant and the customer.

13             So, it's possible that that information  
14      could be provided, but you do have to do it upon  
15      request. So, it's not just put out on the website  
16      without a customer's permission or participant's  
17      permission in the programs.

18             MALE SPEAKER: Thanks. And that kinda gets  
19      to also there's been some questions about trade  
20      secrets or intellectual property that's involved with  
21      proposals that come forward.

22             And, you know, the -- the way that the state  
23      would operate would be to say that it is protected,  
24      there will be -- information will not be shared from -  
25      - from applicants that don't want certain information

1 shared, trade secrets, what have you, and -- and  
2 that's been the case with the Focus program for years  
3 now, so that -- that's not to be -- that's not a  
4 challenge.

5 So one question is, "What guarantee does the  
6 consortium have to get payment [when --] once  
7 installation and operation has taken place?"

8 So again, that goes back to the date of  
9 award and kind of the final decision from the  
10 Commission and from Focus Energy of -- of winning  
11 proposals. At that time, there will be a contract put  
12 in place to say, you know, for this amount of time for  
13 the project construction and there will be a schedule  
14 for the verification from Focus.

15 At that time, payment would -- would go out.  
16 It would be in the contract. It wouldn't be -- it  
17 wouldn't be a wishy-washy agreement about whether or  
18 not a project were to get paid, how will the payment  
19 be made and to whom. It would be to the applicant and  
20 -- and that applicant would likely be -- again, like  
21 we're talking to the consortium -- and it would be a  
22 reimbursement for the cost of construction and  
23 installation.

24 Are there any other questions on -- on  
25 project economics before I continue to move on?

1                   Okay. So I think -- Sarah, it's up to you  
2                   if you'd like to tackle nutrient management. We can  
3                   move into energy.

4                   FEMALE SPEAKER: Sure. I can -- if there's  
5                   any questions -- actually, I have one thing I can  
6                   share.

7                   MALE SPEAKER: Yeah.

8                   FEMALE SPEAKER: Over the networking lunch  
9                   period, I had a number of folks come up and talk to me  
10                  about partic -- how to find participants, how to get  
11                  in touch with farmers, how to, you know, make those  
12                  connections that your companies may or may not be used  
13                  to having to reach out to.

14                  And so, while the notion is (inaudible)  
15                  long-lived that DATCP has a set of farmer lists that  
16                  we can just provide out, that's absolutely not the  
17                  case.

18                  However, most of the ag producers in our  
19                  state are involved in some level of -- or ag  
20                  organization. So everything from your dairy business  
21                  associations, to the potato and vegetable growers, to  
22                  cattlemen's, pork producers, you name it. There are a  
23                  number of ag organizations out there, as well as other  
24                  smaller groups that work with farmers, corn growers,  
25                  every day.

1                   And I would definitely recommend that you  
2                   reach out to those organizations if you would like to  
3                   have some help from them to get in touch with farmers,  
4                   that they may have already been talking to, that have  
5                   expressed interest and have gone to their  
6                   organizations to get more information.

7                   (Inaudible) ourselves and PSC and DNR -- has  
8                   gone to visit with a number of those organizations  
9                   already to talk about this project and our goals, so  
10                  that's one opportunity.

11                  The other -- and I mentioned this earlier,  
12                  but I want to stress it again -- while I don't intend  
13                  to inundate the county land conservation departments  
14                  entirely with 500 calls, they are a great resource and  
15                  one that you should absolutely tap into.

16                  They work with the farmers in their counties  
17                  everyday. They know which ones have issues that they  
18                  would like to, you know, maybe be more proactive to  
19                  deal with, ones that are more willing than others to  
20                  have discussions, ones that are maybe the leaders in  
21                  the community that would be more in a better position  
22                  to bring in their friends and neighbors to talk about  
23                  this opportunity.

24                  So there are a number of ways that you can  
25                  get in touch with those folks. Those couple of



1           directions I think I want to make sure that you try to  
2           capitalize on.

3                     The other thing I talked about, a number of  
4           people, I think what we'll try to do after this, is  
5           when a lot of us registered, or fully didn't like  
6           myself as I mentioned, we -- you know, you may or may  
7           not have taken the opportunity to put in your contact  
8           information fully.

9                     What is in your binder, your packets I  
10          guess, is the registration list that we received a few  
11          days before -- before today, so it was printed out.  
12          Not a complete list, as you're finding though and some  
13          of you may not have taken the opportunity to put in a  
14          comment about who you are or who your company is and  
15          what your potential role could be in a project.

16                    So I think what we're gonna try to do is  
17          double back to the list of registrants, since  
18          everybody I think provided an email address at least,  
19          to give you the opportunity to either opt out, to not  
20          have your information shared, or to be able to augment  
21          the information you initially provided so that we can  
22          put that up on the PSC -- the (inaudible) webpage.

23                    So those of you who may not have had a  
24          chance to shake hands with the right people today and  
25          get in touch, we'll have another opportunity to kind

1 of pick through the list and see what other members of  
2 a consortia you're looking for and be able to contact  
3 the right people who are obviously at least interested  
4 enough to come here today. So you can look for that  
5 in the coming days hopefully too.

6 With that, if you have any other questions,  
7 I know the nutrient management aspect is probably  
8 farthest from your minds at this point, but I hope  
9 what I provided today gives you some footing to get  
10 started and, you know, I'm -- I'm accessible from now  
11 with questions. You can also file those through Clint  
12 at the PSC so we share the answers widely and any  
13 questions we get in, we'll do that so that the full  
14 gamut of potential applicants gets the same  
15 information. But I'm happy to take anything else you  
16 have right now.

17 MALE SPEAKER: Just a quick comment, please,  
18 again, send in your comment information if you'd like  
19 it posted on the website to [oei@wisconsin.gov](mailto:oei@wisconsin.gov).

20 So any -- any questions for -- for Sarah and  
21 the nutrient management aspect of potential projects?

22 Might get out of here a little early.

23 Alrighty. Well, then the last -- the last  
24 section will be in kind of the biogas energy and I'll  
25 try to -- to answer those as much as I can.

1                   So, I'd like to actually pull in Eric and  
2                   Catherine again if I can about the aspect we were  
3                   talking about this morning with injection to  
4                   interstate pipelines versus distribution by pipelines  
5                   in the state and how that would be applicable through  
6                   Focus. Do you guys have some thoughts?

7                   FEMALE SPEAKER: (Inaudible.)

8                   MALE SPEAKER: Yes. This is kind of  
9                   corollary to the question was answered -- asked  
10                  earlier. It's -- the -- the Focus rules are -- are  
11                  very clear about this and I think if you -- if you  
12                  refer to the RFP, I mean, as Clint has reiterated  
13                  several times, they -- the key eligibility criteria is  
14                  that the technologies must offset energy demand,  
15                  either electricity or -- or therms, that would  
16                  otherwise be provided by a participating utility.

17                 That -- that's a very key parameter for us.  
18                 So (inaudible), the RNG was injected into an  
19                 interstate pipeline, all of which left the State of  
20                 Wisconsin, and every bit of the biogas produced was  
21                 handled in that manner. None of the digester effort  
22                 would fall under the Focus rules and would not be  
23                 eligible. It -- it -- it must be offsetting or  
24                 generating energy that, you know, is within the  
25                 service area of one of our participating utilities.

1 That's a very strict rule. So --

2 MALE SPEAKER: Thanks, Eric. The other  
3 question is in regards to kind of what was mentioned  
4 before, kind of more direct payment to -- to producers  
5 of biogas energy.

6 "Could or would utilities bring consumers  
7 willing to pay a premium of a [-- of a] above avoided  
8 cost for green energy?"

9 One of the examples we see is from Vermont  
10 in the Cow Power program. That's not something that  
11 we have in Wisconsin. So I guess I can't really say  
12 if that's a viable option in the short term, but  
13 certainly something to -- to continue the -- the  
14 conversation and -- and how do we kind of bring more  
15 value to -- to renewable energy generation.

16 So, at this point, there's not a program --  
17 a program in this state that allows that, but  
18 certainly a conversation for -- for local officials,  
19 elected officials, and for utilities.

20 To me, the interesting one that might --  
21 might rope in Eric and Catherine in the back again is,  
22 "How will [the -- how will] incorporating non-biogas  
23 renewables or energy efficiency, like solar panels or  
24 insulation and whatnot, be evaluated in the  
25 proposals?"

1                   So there's a -- a section in the -- when it  
2                   talks about the eligible systems, right under that,  
3                   it's talking about, you know, contact your Focus  
4                   adviser about other energy efficiency, renewable  
5                   energy systems, so this is kind of that -- that  
6                   conjoining of -- conjoining of multiple programs at  
7                   Focus.

8                   So there's -- there's one program, it's  
9                   RECIP, and then there's another program that's this --  
10                  this \$20 million. Those are two separate pots of  
11                  money. But there is a -- a sense that certain of the  
12                  systems that are offered in other programs, outside of  
13                  this biogas program, could be eligible for -- for  
14                  funding.

15                 So, I guess I'll ask that to -- to Eric and  
16                 Catherine. Is there a -- a sense that -- that other  
17                 renewables and energy efficiency could be put into a  
18                 program -- into a project?

19                 (Multiple speakers inaudible.)

20                 FEMALE SPEAKER: Okay. Well, just to  
21                 clarify, if you're gonna apply for Renewable Energy  
22                 Competitive Incentive Program, that's a separate  
23                 process from this anaerobic digester offering, so we  
24                 actually have an RFP out for that program right now  
25                 and I technically can't answer questions about it at

1       this time, so if you have questions about that, I  
2       would definitely redirect -- or turn those over to  
3       recip@focusonenergy.com, so I'm just gonna kind of  
4       sidestep that one.

5               Eric, did you want to address any of the  
6       other components on that?

7               MALE SPEAKER: Yeah, just one. Focus on  
8       Energy does offer quite a range of what we call  
9       standard incentives -- we call 'em prescriptive  
10      incentives. They're for just regular energy  
11      efficiency improvements, where you might have an  
12      option from going -- for the more conventional type of  
13      equipment or technology to that next step up of more  
14      energy efficient and -- and Focus offers lots of  
15      incentives.

16              An example might be going to LED lighting as  
17      opposed to fluorescent, incandescent, so, you know,  
18      those are available, but I -- I would refer you to the  
19      RFP on Page 2, there's in Table 1, it kind of breaks  
20      down by system el -- by eligibility among the  
21      administrative organizers here.

22              The Public Service Commission and Focus are  
23      listed first and you see in that list things like the  
24      biogas production, uh, biogas compression, the piping  
25      systems, electricity production, you know, you'd put

1 in generator if you might use that, generating  
2 renewable natural gas, or CNG (inaudible) for  
3 transportation fuel, that is, you know, currently  
4 supplied as natural gas by a participating utility.  
5 Again, that -- there's that link.

6 And then it's just energy efficiency and  
7 other renewables. You notice there's other  
8 technologies broken out by -- under the DNR's heading  
9 and DATCP's heading, so specifically the Focus on  
10 Energy, those -- those components of the -- this  
11 overall project listed in this table are the ones  
12 that, you know, we -- all of the incentive programs is  
13 gonna get is encompassed within that lump sum.

14 If you're selected and you're awarded, that  
15 -- every -- every bit of energy efficiency in your  
16 project would be rewarded, so to speak, you know, via  
17 that incentive from Focus.

18 Now, if you put up say a building on the  
19 property to house some of these other treatment  
20 systems, like the water -- or the digested solids  
21 treatment, water treatment equipment, and you want to  
22 make upgrades to that building, simply, you know, the  
23 lighting system, the heating/ventilating system,  
24 things like that, Focus incentives would be eligible  
25 for those components.

1                   So, again, if you -- if you have specific  
2                   questions, I'd encourage you to submit them to that  
3                   email address that Clint mentioned and we'll get you  
4                   very specific answers -- well, everyone would be,  
5                   well, able to access those specific answers, so please  
6                   don't hesitate to ask specific questions if you have  
7                   them.

8                   MALE SPEAKER: That's oei@wisconsin.gov.

9                   Was there a comment also to that question  
10                  from Renew? Is that what I heard? No? Okay. Yeah.

11                  MALE SPEAKER: (Inaudible.) Just building  
12                  on what Catherine said, there is a separate RFP for  
13                  the RECIP renewable projects and that's due right now,  
14                  March 24th, of this year. And is there an expectation  
15                  that there will be another round of that? Yeah. So  
16                  there is an expectation that there will be another  
17                  round of that, so thinking about projects, if you're  
18                  thinking of that, the timelines don't all line up  
19                  perfectly.

20                  MALE SPEAKER: Thanks, Tyler. Okay.

21                  So there's another question here about --  
22                  "What percentage of energy reduction off-farm could be  
23                  sold to grid or pipeline?"

24                  Off-farm -- I mean, there's no -- there's no  
25                  limit to -- or there's no prescription of how much of



1 the energy produced needs to go on to the grid. And -  
2 - and as you're -- as you can tell, there's a little  
3 bit of contention about, you know, which pipeline  
4 we're -- we're injecting into. Obviously, Focus has  
5 purview over the -- the Wisconsin utility distribution  
6 system, not the (inaudible) -- interstate pipelines,  
7 so that makes a big difference.

8 And then the second part is, "Must energy be  
9 used only on farms to reduce kilowatt hours or [-- or  
10 -- or] therm use?"

11 No, that kinda goes back to that other  
12 question, that other statement at the end here about  
13 kind of the -- I can't find the slide -- it's the one  
14 that talks about the -- the -- all of the energy being  
15 used or -- or the -- the energy produced exceeding the  
16 amount annually used. That's -- that is -- it's the  
17 case that you can completely offset a facility and --  
18 and it's -- that's still Focus eligible.

19 I don't know if -- yeah, go ahead.

20 (Multiple speakers inaudible.)

21 MALE SPEAKER: I had a follow-up question on  
22 the whole interstate pipeline issue.

23 So, if you inject RNG into the interstate  
24 pipeline and let's just say We Energies is already  
25 purchasing, they have a gatehouse and they're getting

1       their natural gas from that interstate pipeline too,  
2       isn't there a displacement factor that would say  
3       you've already -- you're reducing that demand with the  
4       renewable natural gas, even if you're not directly  
5       injecting it into the We Energies pipeline?

6               MALE SPEAKER: Yeah, I think there might be  
7       a way to -- to make that case. And perhaps that would  
8       take some interaction with the utility to kind of --  
9       to formalize that arrangement.

10              Maybe -- maybe even Jeff -- I don't know if  
11      you have a thought on that -- on --

12              MALE SPEAKER: Yeah. I think that's a  
13      possibility, but Clint's right, you -- we want you to  
14      work with the utility to formalize that arrangement so  
15      the utility's recognizing that they're actually  
16      purchasing that renewable gas as an offset to the  
17      natural gas they'd be getting delivered at the gate  
18      station.

19              MALE SPEAKER: Thanks, Jeff.

20              Just kinda looking over -- pretty much  
21      answered most of the questions that we've gotten. And  
22      again, any -- any that have been written that we  
23      didn't get to or didn't get to completely, we will  
24      have posted on the website on -- on the PSC's webpage.  
25      Are there any other questions about the energy aspect

1 of projects?

2 Got one over here.

3 MALE SPEAKER: Hi. I -- this is back to  
4 that question about the -- the award of the grant.

5 I realize that if you award the grant and if  
6 you can get other grants from other sources, it's  
7 beneficial, but I've worked on projects where we get a  
8 grant and then we -- like, we would get your grant and  
9 then we would get a USDA grant six months later. And  
10 in New York what they do is they deduct a certain  
11 portion of that USDA grant amount from their grant.

12 Would you be doing the same?

13 MALE SPEAKER: No. We wouldn't -- we  
14 wouldn't be changing the -- the incentive amount based  
15 on other -- other funding sources. But -- but again,  
16 just to reiterate the point that the -- the inclusion  
17 of other funding sources into the -- the application  
18 is -- is going to be beneficial.

19 Any other questions?

20 Yeah, there's a couple more.

21 MALE SPEAKER: I -- I have a question  
22 concerning the R -- RNG and there's some discussion,  
23 you know, selling it to We Energies. Obviously, the  
24 only financial incentive here with that RNG is to  
25 really put it in an interstate pipeline and currently

1           there's some federal subsidies or N Credits. In  
2           California, there's some additional credits. There  
3           isn't any incentive in Wisconsin for any of that.

4                     If we're putting RNG into the pipeline but  
5           we're also using some of it on our own to reduce the  
6           requirement of a facility, I guess we'd have, what,  
7           some partial credit for what we're reducing at the  
8           facility and we could sell the other stuff on our own?

9                     (Multiple speakers inaudible.)

10                    MALE SPEAKER: So you're saying -- you're  
11           saying kind of where -- kind of where the -- where the  
12           offsetting is -- is occurring --

13                    MALE SPEAKER: Right.

14                    MALE SPEAKER: -- does that modify how the -  
15           - the eligibility for these funds?

16                    Again, it goes back to is -- is any of that  
17           reducing the demand on -- on participating utilities.  
18           That's -- that's the bottom line. So, if it's -- if  
19           it's part electricity generation and part injection to  
20           a pipeline that's -- that's Focus eligible, then  
21           that's perfectly acceptable.

22                    Is there another one on the right side of  
23           the room here?

24                    (Multiple speakers inaudible.)

25                    MALE SPEAKER: I was seeing if Megan can

1           answer my question for me.

2                       So on Page 1, it says, "A successful  
3           proposal will involve," -- it lists a number of things  
4           -- the final one is, "And transport of manure to and  
5           from a centralized location." So are you envisioning  
6           that that -- are you requiring it be that it is manure  
7           that's transported or is there a possibility that  
8           there's distributed digesters that are moving close to  
9           digested materials to and from centralized locations?

10                      Sure. So the -- some of that language is --  
11           is kind of early on in our process and we wanted to  
12           include it just to kind of give an idea of what the  
13           conversation had been. The -- we -- we don't want to  
14           suggest that there's a certain way that the feedstocks  
15           should be treated in the system.

16                      Just talking to a few folks over lunch,  
17           there could be, you know -- there could be a  
18           consortium of eight small digesters and they're all --  
19           they all ship the gas by pipe to a centralized  
20           location. Or there could be one digester where  
21           everyone brings the manure to a central location. We  
22           don't want to say that one way is better than the  
23           other. We want to have applicants propose something  
24           that's the most economically feasible for their --  
25           their conditions.

1                   So -- and I think that's reflected in -- in  
2                   the scoring criteria when -- when it talks about  
3                   system design and optimization. There's some -- some  
4                   guides at the end of the RFP after the -- the scoring  
5                   criteria in Section 5 that goes into a little bit more  
6                   of -- of what we -- what we see as what we'd like the  
7                   outcome to be from the reduction in the cost of -- of  
8                   hauling manure and a lot of that has to do with, you  
9                   know, liquid solid separation and -- and whatnot.

10                  But the -- we don't necessarily want to say  
11                  how that's done. We want to say that we'd like to see  
12                  it done, but not how.

13                  SPEAKER: One more question.

14                  MALE SPEAKER: Yeah.

15                  MALE SPEAKER: Bit of a question and then a  
16                  comment and there was comment on the federal credits  
17                  regarding the renewable fuel standard and where they  
18                  are available.

19                  They are available anywhere across the  
20                  United States, including Wisconsin. That fuel just  
21                  has to be used as a vehicle fuel and there's a  
22                  certification process for that. So it's not just  
23                  California. It's not just the Pacific Northwest.  
24                  Those are available and it does not have to be put  
25                  into a pipeline to get those credits. It can be used

1 directly.

2 The problem typically is it's a lot of fuel  
3 and there's not a lot of CNG vehicles in Wisconsin, so  
4 that's something that's hopefully changing here in the  
5 near future to utilize RNG.

6 MALE SPEAKER: Thank you. Is there a -- do  
7 you know of a website where we could send out to  
8 everyone to have access to that -- that information?

9 MALE SPEAKER: I'll try and get something --

10 MALE SPEAKER: Great.

11 MALE SPEAKER: -- on the federal fuel  
12 standard.

13 MALE SPEAKER: Okay. Great. Any other  
14 questions? Might be able to wrap up a whole hour  
15 early and I think we'll do just that.

16 (End of excerpt.)

1                   Certification

2                   I, Megan Wunsch, hereby certify that the  
3                   foregoing pages are a true, accurate, and complete  
4                   transcript of proceedings, transcribed by me from a copy of  
5                   the electronic sound recording to the best of my knowledge  
6                   and ability.

7                   I was not present at the recording sessions and  
8                   have no way of personally guaranteeing the accuracy of the  
9                   recordings.

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13   by: Megan Wunsch  
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